

**Report of
Endangered, Threatened, and Special Concern
Plants, Animals, and Natural Communities
for Harlan County, Kentucky**

**Kentucky State Nature Preserves
Commission
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Kentucky State Nature Preserves Commission

Key for County List Report

Within a county, elements are arranged first by taxonomic complexity (plants first, natural communities last), and second by scientific name. A key to status, ranks, and count data fields follows.

STATUS

KSNPC: Kentucky State Nature Preserves Commission status:

N or blank = none E = endangered T = threatened S = special concern H = historic X = extirpated

USESA: U.S. Fish and Wildlife Service status:

blank = none C = candidate LT = listed as threatened LE = listed as endangered
SOMC = Species of Management Concern

RANKS

GRANK: Estimate of element abundance on a global scale:

G1 = Critically imperiled	GU = Unrankable
G2 = Imperiled	G#? = Inexact rank (e.g. G2?)
G3 = Vulnerable	G#Q = Questionable taxonomy
G4 = Apparently secure	G#T# = Intraspecific taxa (Subspecies and variety abundances are coded with a 'T' suffix; the 'G' portion of the rank then refers to the entire species)
G5 = Secure	
GH = Historic, possibly extinct	GNR = Unranked
GX = Presumed extinct	GNA = Not applicable

SRANK: Estimate of element abundance in Kentucky:

S1 = Critically imperiled	SU = Unrankable	Migratory species may have separate ranks for different population segments (e.g. S1B, S2N, S4M): S#B = Rank of breeding population S#N = Rank of non-breeding population S#M = Rank of transient population
S2 = Imperiled	S#? = Inexact rank (e.g. G2?)	
S3 = Vulnerable	S#Q = Questionable taxonomy	
S4 = Apparently secure	S#T# = Intraspecific taxa	
S5 = Secure	SNR = Unranked	
SH = Historic, possibly extirpated	SNA = Not applicable	
SX = Presumed extirpated		

COUNT DATA FIELDS

OF OCCURRENCES: Number of occurrences of a particular element from a county. Column headings are as follows:

E - currently reported from the county
H - reported from the county but not seen for at least 20 years
F - reported from county & cannot be relocated but for which further inventory is needed
X - known to have extirpated from the county
U - reported from a county but cannot be mapped to a quadrangle or exact location.

The data from which the county report is generated is continually updated. The date on which the report was created is in the report footer. Contact KSNPC for a current copy of the report.

Please note that the quantity and quality of data collected by the Kentucky Natural Heritage Program are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed, and new species of plants and animals are still being discovered. For these reasons, the Kentucky Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. Heritage reports summarize the existing information known to the Kentucky Natural Heritage Program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

KSNPC appreciates the submission of any endangered species data for Kentucky from field observations. For information on data reporting or other data services provided by KSNPC, please contact the Data Manager at:

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County	Taxonomic Group	Scientific name	Common name	Statuses	Ranks	# of Occurrences				
						E	H	F	X	U
Harlan	Mosses	<i>Anomodon rugelii</i>		T /	G5 / S2?	2	0	0	0	0
Harlan	Mosses	<i>Entodon brevisetus</i>		E /	G4? / S1?	1	0	0	0	0
Harlan	Mosses	<i>Herzogiella turfacea</i>		E /	G4G5 / S1?	1	0	0	0	0
Harlan	Mosses	<i>Neckera pennata</i>		T /	G5 / S2?	1	0	0	0	0
Harlan	Mosses	<i>Oncophorus raui</i>		E /	G3 / S1?	2	0	0	0	0
Harlan	Mosses	<i>Polytrichum strictum</i>		E /	G4 / S1?	1	0	0	0	0
Harlan	Mosses	<i>Sphagnum quinquefarium</i>	A Sphagnum Moss	E /	G5 / S1?	1	0	0	0	0
Harlan	Vascular Plants	<i>Acer spicatum</i>	Mountain Maple	E /	G5 / S1S2	0	0	1	0	0
Harlan	Vascular Plants	<i>Adlumia fungosa</i>	Allegheny-vine	E /	G4 / S1	0	0	1	0	0
Harlan	Vascular Plants	<i>Agrimonia gryposepala</i>	Tall Hairy Groovebur	T /	G5 / S1S2	2	0	0	0	0
Harlan	Vascular Plants	<i>Amianthium muscitoxicum</i>	Fly Poison	T /	G4G5 / S1S2	2	0	0	0	0
Harlan	Vascular Plants	<i>Angelica triquinata</i>	Filmy Angelica	E /	G4 / S1S2	5	1	0	0	0
Harlan	Vascular Plants	<i>Aralia nudicaulis</i>	Wild Sarsaparilla	E /	G5 / S3?	0	1	0	0	0
Harlan	Vascular Plants	<i>Baptisia tinctoria</i>	Yellow Wild Indigo	T /	G5 / S1S2	7	0	0	0	0
Harlan	Vascular Plants	<i>Bartonia virginica</i>	Yellow Screwstem	T /	G5 / S2	1	0	0	0	0
Harlan	Vascular Plants	<i>Botrychium oneidense</i>	Blunt-lobed Grape-fern	H /	G4Q / SH	0	1	0	0	0
Harlan	Vascular Plants	<i>Boykinia aconitifolia</i>	Brook Saxifrage	T /	G4 / S2	2	1	0	0	0
Harlan	Vascular Plants	<i>Carex aestivalis</i>	Summer Sedge	E /	G4 / S1	2	0	0	0	0
Harlan	Vascular Plants	<i>Carex appalachica</i>	Appalachian Sedge	T /	G4 / S2?	3	0	0	0	0
Harlan	Vascular Plants	<i>Carex austrocaroliniana</i>	Tarheel Sedge	S /	G4 / S3	1	0	0	0	0
Harlan	Vascular Plants	<i>Carex leptoneura</i>	Finely-nerved Sedge	E /	G4 / S1	2	0	0	0	0
Harlan	Vascular Plants	<i>Carex roanensis</i>	Roan Mountain Sedge	E /	G3 / S1	2	0	0	0	0
Harlan	Vascular Plants	<i>Castanea dentata</i>	American Chestnut	E /	G4 / S1?	1	0	0	0	0
Harlan	Vascular Plants	<i>Chrysosplenium americanum</i>	American Golden-saxifrage	T /	G5 / S2?	2	0	0	0	0
Harlan	Vascular Plants	<i>Circaea alpina</i>	Small Enchanter's Nightshade	S /	G5 / S3	1	1	0	0	0
Harlan	Vascular Plants	<i>Convallaria montana</i>	American Lily-of-the-valley	E /	G4? / S1	1	0	0	0	0
Harlan	Vascular Plants	<i>Corallorhiza maculata</i>	Spotted Coralroot	E /	G5 / S1	2	0	0	0	0
Harlan	Vascular Plants	<i>Corydalis sempervirens</i>	Rock Harlequin	S /	G4G5 / S3?	3	0	0	0	0
Harlan	Vascular Plants	<i>Cymophyllus fraserianus</i>	Fraser's Sedge	E /	G4 / S1	2	0	0	0	0

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Harlan	Vascular Plants	<i>Cypripedium parviflorum</i>	Small Yellow Lady's-slipper	T /	G5 / S2	1	0	0	1	0
Harlan	Vascular Plants	<i>Deschampsia flexuosa</i>	Crinkled Hairgrass	T /	G5 / S2	3	0	0	0	0
Harlan	Vascular Plants	<i>Dryopteris carthusiana</i>	Spinulose Wood Fern	S /	G5 / S3	3	0	0	0	0
Harlan	Vascular Plants	<i>Eriophorum virginicum</i>	Tawny Cotton-grass	E /	G5 / S1?	1	0	0	0	0
Harlan	Vascular Plants	<i>Eupatorium maculatum</i>	Spotted Joe-pye-weed	H /	G5 / SH	0	1	0	0	0
Harlan	Vascular Plants	<i>Eupatorium steelei</i>	Steele's Joe-pye-weed	T /	G4 / S2	10	0	0	0	0
Harlan	Vascular Plants	<i>Gentiana decora</i>	Showy Gentian	S /	G4? / S3	8	4	1	0	0
Harlan	Vascular Plants	<i>Helianthemum canadense</i>	Canada Frostweed	E /	G5 / S1?	2	0	0	0	0
Harlan	Vascular Plants	<i>Heracleum lanatum</i>	Cow-parsnip	H /	G5 / SH	0	1	0	0	0
Harlan	Vascular Plants	<i>Hydrophyllum virginianum</i>	Eastern Waterleaf	T /	G5 / S2?	0	2	0	0	0
Harlan	Vascular Plants	<i>Hypericum pseudomaculatum</i>	Large Spotted St. John's-wort	H /	G5? / SH	0	1	0	0	0
Harlan	Vascular Plants	<i>Juglans cinerea</i>	White Walnut	S / SOMC	G4 / S3	2	0	0	0	0
Harlan	Vascular Plants	<i>Juncus articulatus</i>	Jointed Rush	S /	G5 / S2S3	1	0	0	0	0
Harlan	Vascular Plants	<i>Lathyrus venosus</i>	Smooth Veiny Peavine	S /	G5 / S2S3	1	0	0	0	0
Harlan	Vascular Plants	<i>Leucothoe recurva</i>	Red-twigg Doghobble	E /	G4G5 / S1	1	0	0	0	0
Harlan	Vascular Plants	<i>Lilium superbum</i>	Turk's Cap Lily	T /	G5 / S1S2	7	1	0	0	0
Harlan	Vascular Plants	<i>Liparis loeselii</i>	Loesel's Twayblade	T /	G5 / S2S3	1	0	0	0	0
Harlan	Vascular Plants	<i>Listera smallii</i>	Kidney-leaf Twayblade	T /	G4 / S2	1	1	0	0	0
Harlan	Vascular Plants	<i>Lycopodiella appressa</i>	Southern Bog Clubmoss	E /	G5 / S1	1	0	0	0	0
Harlan	Vascular Plants	<i>Lycopodium clavatum</i>	Running Pine	E /	G5 / S1?	1	0	0	0	0
Harlan	Vascular Plants	<i>Lycopodium inundatum</i>	Northern Bog Clubmoss	E /	G5 / S1S2	1	0	0	0	0
Harlan	Vascular Plants	<i>Maianthemum canadense</i>	Wild Lily-of-the-valley	T /	G5 / S2	3	0	0	0	0
Harlan	Vascular Plants	<i>Melampyrum lineare</i> var. <i>latifolium</i>	American Cowwheat	T /	G5T5 / S2	1	0	0	0	0
Harlan	Vascular Plants	<i>Minuartia glabra</i>	Appalachian Sandwort	T /	G4 / S1S2	2	0	0	0	0
Harlan	Vascular Plants	<i>Oclemena acuminata</i>	Whorled Aster	T /	G5 / S2S3	1	0	0	0	0
Harlan	Vascular Plants	<i>Oenothera oakesiana</i>	Evening Primrose	H /	G4G5Q / SH	0	1	0	0	0
Harlan	Vascular Plants	<i>Paronychia argyrocoma</i>	Silverling	E /	G4 / S1	2	0	0	0	0
Harlan	Vascular Plants	<i>Platanthera psycodes</i>	Small Purple-fringed Orchid	E /	G5 / S1	4	2	1	0	0
Harlan	Vascular Plants	<i>Prosartes maculata</i>	Nodding Mandarin	S /	G3G4 / S3?	0	2	0	0	0

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Harlan	Vascular Plants	<i>Rubus canadensis</i>	Smooth Blackberry	E /	G5 / S1?	1	3	0	0	0
Harlan	Vascular Plants	<i>Sambucus racemosa ssp. pubens</i>	Red Elderberry	E /	G5T4T5 / S1S2	4	1	0	0	0
Harlan	Vascular Plants	<i>Saxifraga michauxii</i>	Michaux's Saxifrage	T /	G4G5 / S2	2	0	0	0	0
Harlan	Vascular Plants	<i>Saxifraga micranthidifolia</i>	Lettuce-leaf Saxifrage	E /	G5 / S1	5	1	0	0	0
Harlan	Vascular Plants	<i>Silene ovata</i>	Ovate Catchfly	E / SOMC	G3 / S1	0	3	0	1	0
Harlan	Vascular Plants	<i>Solidago curtisii</i>	Curtis' Goldenrod	T /	G4G5 / S2S3	11	1	0	0	0
Harlan	Vascular Plants	<i>Solidago puberula</i>	Downy Goldenrod	S /	G5 / S2	3	1	0	0	0
Harlan	Vascular Plants	<i>Solidago roanensis</i>	Roan Mountain Goldenrod	T /	G4G5 / S1S2	3	1	0	0	0
Harlan	Vascular Plants	<i>Stachys eplingii</i>	Epling's Hedge-nettle	H /	G5 / SH	0	1	0	0	0
Harlan	Vascular Plants	<i>Streptopus lanceolatus</i>	Rosy Twisted-stalk	E /	G5 / S1	2	2	0	0	0
Harlan	Vascular Plants	<i>Trillium undulatum</i>	Painted Trillium	T /	G5 / S2	6	1	1	0	0
Harlan	Vascular Plants	<i>Vaccinium erythrocarpum</i>	Southern Mountain Cranberry	E /	G5 / S1?	2	0	0	0	0
Harlan	Vascular Plants	<i>Veratrum parviflorum</i>	Appalachian Bunchflower	E /	G4? / S1	2	2	0	0	0
Harlan	Vascular Plants	<i>Viburnum lantanoides</i>	Alderleaved Viburnum	E /	G5 / S1?	1	0	0	0	0
Harlan	Terrestrial Snails	<i>Anguispira rugoderma</i>	Pine Mountain Tigersnail	E /	G2 / S2	2	0	0	0	0
Harlan	Terrestrial Snails	<i>Glyphyalinia rhoadsi</i>	Sculpted Glyph	T /	G5 / S1	7	0	0	0	0
Harlan	Terrestrial Snails	<i>Mesomphix rugeli</i>	Wrinkled Button	T /	G4 / S2	10	1	0	0	0
Harlan	Terrestrial Snails	<i>Neohelix dentifera</i>	Big-tooth Whitelip	T /	G5 / S2	14	1	0	0	0
Harlan	Terrestrial Snails	<i>Pilsbryna sp. 1</i>	A Snail	E /	G1 / S1	5	0	0	0	0
Harlan	Terrestrial Snails	<i>Vertigo bollesiana</i>	Delicate Vertigo	E /	G4 / S1	3	0	0	0	0
Harlan	Terrestrial Snails	<i>Vertigo clappi</i>	Cupped Vertigo	E /	G1G2 / S1	1	0	0	0	0
Harlan	Terrestrial Snails	<i>Vitrinizonites latissimus</i>	Glassy Grapeskin	T /	G4 / S2	15	0	0	0	0
Harlan	Freshwater Mussels	<i>Anodontoides denigratus</i>	Cumberland Papershell	E / SOMC	G1 / S1	0	0	0	1	0
Harlan	Crustaceans	<i>Cambarus buntingi</i>	Longclaw Crayfish	S /	G4 / S3	8	1	0	0	0
Harlan	Crustaceans	<i>Cambarus parvoculus</i>	Mountain Midget Crayfish	T /	G5 / S2	1	0	0	0	0

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Harlan	Insects	<i>Amphiagrion saucium</i>	Eastern Red Damsel	E /	G5 / S1	1	1	0	0	0
Harlan	Insects	<i>Callophrys irus</i>	Frosted Elfin	T /	G3 / S1	1	0	0	0	0
Harlan	Insects	<i>Erora laeta</i>	Early Hairstreak	T /	GU / S1	1	1	0	0	0
Harlan	Insects	<i>Phyciodes batesii</i>	Tawny Crescent	H / SOMC	G4 / SH	0	1	0	0	0
Harlan	Insects	<i>Polygonia progne</i>	Gray Comma	H /	G4G5 / SH	0	1	0	0	0
Harlan	Insects	<i>Pseudanophthalmus rogersae</i>	Rogers' Cave Beetle	T / SOMC	G1 / S1	1	0	0	0	0
Harlan	Insects	<i>Pseudanophthalmus scholasticus</i>	Scholarly Cave Beetle	T / SOMC	G1 / S1	0	1	0	0	0
Harlan	Fishes	<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	T /	G4 / S2	0	1	0	0	0
Harlan	Fishes	<i>Phoxinus cumberlandensis</i>	Blackside Dace	T / LT	G2 / S2	17	2	1	2	0
Harlan	Amphibians	<i>Plethodon wehrlei</i>	Wehrle's Salamander	E /	G4 / S1	1	0	0	0	0
Harlan	Reptiles	<i>Eumeces anthracinus</i>	Coal Skink	T /	G5 / S2	0	0	0	0	1
Harlan	Reptiles	<i>Pituophis melanoleucus melanoleucus</i>	Northern Pine Snake	T / SOMC	G4T4 / S2	0	0	0	0	1
Harlan	Breeding Birds	<i>Accipiter striatus</i>	Sharp-shinned Hawk	S /	G5 / S3B,S4N	1	0	0	0	0
Harlan	Breeding Birds	<i>Aimophila aestivalis</i>	Bachman's Sparrow	E / SOMC	G3 / S1B	0	0	0	1	0
Harlan	Breeding Birds	<i>Corvus corax</i>	Common Raven	T /	G5 / S1S2	6	0	0	0	0
Harlan	Breeding Birds	<i>Dendroica fusca</i>	Blackburnian Warbler	T /	G5 / S1S2B	1	0	0	0	0
Harlan	Breeding Birds	<i>Empidonax minimus</i>	Least Flycatcher	E /	G5 / S1B	2	0	0	0	0
Harlan	Breeding Birds	<i>Falco peregrinus</i>	Peregrine Falcon	E / SOMC	G4 / S1B	1	0	0	0	0
Harlan	Breeding Birds	<i>Junco hyemalis</i>	Dark-eyed Junco	S /	G5 / S2S3B,S5N	2	0	0	0	0
Harlan	Breeding Birds	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak	S /	G5 / S3S4B	3	0	0	0	0
Harlan	Breeding Birds	<i>Picoides borealis</i>	Red-cockaded Woodpecker	X / LE	G3 / SX	0	0	0	1	0
Harlan	Breeding Birds	<i>Vermivora chrysoptera</i>	Golden-winged Warbler	T / SOMC	G4 / S2B	5	4	0	0	0
Harlan	Breeding Birds	<i>Wilsonia canadensis</i>	Canada Warbler	S /	G5 / S3B	2	0	0	0	0
Harlan	Mammals	<i>Clethrionomys gapperi maurus</i>	Kentucky Red-backed Vole	S / SOMC	G5T3T4 / S3	9	3	0	0	0
Harlan	Mammals	<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat	S / SOMC	G3G4 / S3	1	0	0	0	0
Harlan	Mammals	<i>Myotis grisescens</i>	Gray Myotis	T / LE	G3 / S2	2	0	0	0	0
Harlan	Mammals	<i>Myotis leibii</i>	Eastern Small-footed Myotis	T / SOMC	G3 / S2	16	0	0	0	0

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Harlan	Mammals	<i>Myotis sodalis</i>	Indiana Bat	E / LE	G2 / S1S2	9	0	0	0	0
Harlan	Mammals	<i>Sorex cinereus</i>	Cinereus Shrew	S /	G5 / S3	8	1	0	0	0
Harlan	Mammals	<i>Sorex dispar blitchi</i>	Long-tailed Shrew	E /	G4T3T4 / S1	3	0	0	0	0
Harlan	Mammals	<i>Spilogale putorius</i>	Eastern Spotted Skunk	S /	G5 / S2S3	0	1	0	0	0
Harlan	Mammals	<i>Ursus americanus</i>	American Black Bear	S /	G5 / S2	5	0	0	0	0
Harlan	Communities	<i>Appalachian acid seep</i>		/	GNR / S2	12	0	0	0	0
Harlan	Communities	<i>Appalachian mesophytic forest</i>		/	GNR / S5	1	0	0	0	0
Harlan	Communities	<i>Appalachian pine-oak forest</i>		/	GNR / S5	1	0	0	0	0
Harlan	Communities	<i>Appalachian sub-xeric forest</i>		/	GNR / S5	2	0	0	0	0
Harlan	Communities	<i>Cumberland highlands forest</i>		/	GNR / S1	1	1	0	0	0
Harlan	Communities	<i>Cumberland mountains xeric virginia pine woodland</i>		/	GNR / S4	3	0	0	0	0
Harlan	Communities	<i>Hemlock-mixed forest</i>		/	GNR / S5	1	0	0	0	0
Harlan	Communities	<i>Pine savanna-woodland</i>		/	GNR / S1	1	0	0	0	0
Harlan	Communities	<i>Xeric acidic forest</i>		/	GNR / S5	2	0	0	0	0
Harlan County Total:						338	59	6	7	2